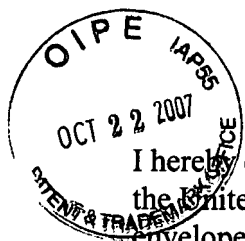


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I hereby certify that this correspondence is being deposited on October 16, 2007 with the United States Postal Service with sufficient postage as first class mail under 37 CFR 1.8 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Signature: Hellier Kelly
Hellier Kelly

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Inventor(s) : Lucien Alfred Couvillon, Jr.

Patent No. : 6,997,870 B2

Issue Date : February 14, 2006

Title : UNIVERSAL, PROGRAMMABLE GUIDE CATHETER

Docket : 02-076US02

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate
OCT 24 2007
of Correction

SIR:

REQUEST FOR CERTIFICATE OF CORRECTION

Applicant's attorney, on behalf of the Assignee of record, hereby requests the issuance of a Certificate of Correction for the following Applicant errors pursuant to 35 USC §255:

Correction is requested for the following Applicant errors:

Specification, Col. 1, line 67, after "curves" insert - - , - - .

Specification, Col. 1, line 67, after "complex" delete - - , - - .

Specification, Col. 2, line 2, before "shape", change "user selectable" to - - user-selectable - - .

Specification, Col. 3, line 32, after "schematic", change "cross sectional" to - - cross-sectional - - .

Specification, Col. 3, line 44, after "with", delete - - the - - .

Specification, Col. 6, line 65, after "embodiment", delete - - that - - .

Specification, Col. 8, line 48, after "selected", change "form" to - - from - - .

OCT 24 2007

Specification, Col. 9, line 10, after "connection", insert - - with - - .

Specification, Col. 10, line 12, after "or", change "gage" to - - gauge - - .

Specification, Col. 11, line 11, after "end", insert - - of - - .

Specification, Col. 11, line 17, change "(e.g., at the distal) end" to - - (e.g., at the distal end) - - .

Specification, Col. 11, line 54, after "example," insert - - on - - .

Specification, Col. 11, line 57, after "position", change "imaging sensing" to - - imaging-sensing - - .

Specification, Col. 12, line 19, after "representation", insert - - in - - .

Specification, Col. 13, line 17, after "provide", delete - - an - - .

Claim 11, Col. 15, line 8, before "shape", change "user selectable" to - - user-selectable - - .

Claim 12, Col. 15, line 12, before "shape", change "user selectable" to - - user-selectable - - .

Claim 13, Col. 15, line 14, after "1", insert - - wherein - - .

Correction is requested for the following Patent Office errors:

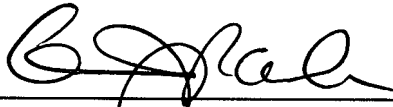
Specification, Col. 13, line 18, after "orientation", change "in vivo" to - - *in vivo* - - .

Approval and entry of the above corrections is respectfully requested.

Authorization is hereby given to charge all fees due to the undersigned attorney's PTO

Deposit Account #50-1047. Also filed herewith is PTO Form 1050, duly completed.

Respectfully submitted:



Keum J. Park Reg. No. 42,059
Mayer & Williams, PC
251 North Avenue West, 2nd Floor
Westfield, NJ 07090

Date: October 15, 2007
Tel.: 908-518-7700
Fax: 908-518-7795

OCT 24 2007

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,997,870 B2

DATED : February 14, 2006

INVENTOR(S): Lucien Alfred Couvillon, Jr.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Specification, Col. 1, line 67, after "curves" insert - - , - - .
 Specification, Col. 1, line 67, after "complex" delete - - , - - .
 Specification, Col. 2, line 2, before "shape", change "user selectable" to - - user-selectable - - .
 Specification, Col. 3, line 32, after "schematic", change "cross sectional" to - - cross-sectional - - .
 Specification, Col. 3, line 44, after "with", delete - - the - - .
 Specification, Col. 6, line 65, after "embodiment", delete - - that - - .
 Specification, Col. 8, line 48, after "selected", change "form" to - - from - - .
 Specification, Col. 9, line 10, after "connection", insert - - with - - .
 Specification, Col. 10, line 12, after "or", change "gage" to - - gauge - - .
 Specification, Col. 11, line 11, after "end", insert - - of - - .
 Specification, Col. 11, line 17, change "(e.g., at the distal) end" to - - (e.g., at the distal end) - - .
 Specification, Col. 11, line 54, after "example," insert - - on - - .
 Specification, Col. 11, line 57, after "position", change "imaging sensing" to - - imaging-sensing - - .
 Specification, Col. 12, line 19, after "representation", insert - - in - - .
 Specification, Col. 13, line 17, after "provide", delete - - an - - .
 Specification, Col. 13, line 18, after "orientation", change "in vivo" to - - *in vivo* - - .

 Claim 11, Col. 15, line 8, before "shape", change "user selectable" to - - user-selectable - - .
 Claim 12, Col. 15, line 12, before "shape", change "user selectable" to - - user-selectable - - .
 Claim 13, Col. 15, line 14, after "1", insert - - wherein - - .

MAILING ADDRESS OF SENDER:

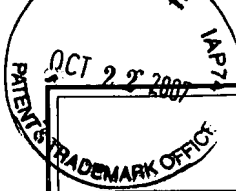
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PATENT NO. 6,997,870 B2No. of additional copies 0

OCT 24 2006

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete the form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1350.

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11/ 799846

COPC

**TRANSMITTAL LETTER
(General - Patent Issued)**Docket No.
PC-P0014US

Patentee(s): Donald Glynn Sims, et al

U.S. Patent No.

7,275,606 B1

Issue Date

Oct. 2, 2007

Title:

SOLIDS STRAINER SYSTEM FOR A HYDRAULIC CHOKECOMMISSIONER FOR PATENTS:Transmitted herewith is: **Certificate of Correction**

10/22/2007 MGE BREM1 00000027 500987 7275606

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100.00 DA

- ☐ No additional fee is required.
- ☐ A check in the amount of _____ is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account 50/0987 as described below.
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**Certificate
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Dated: October 17, 2007

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Elizabeth R. Hall

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10/17/2007

(Date)

Signature of Person Mailing Correspondence

Elizabeth R. Hall

Typed or Printed Name of Person Mailing Correspondence

Customer No.: 34453

cc:

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : US 7,275,606 B1

DATED : Oct. 2, 2007

INVENTOR(S) : Sims et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The name of the second inventor is incorrect.

Michael James Sims should read Michael James Taylor.

MAILING ADDRESS OF SENDER (Please do not use customer number)

Elizabeth R. Hall
1722 Maryland Street
Houston, Texas 77006-1718

PATENT NO. 7,275,606 B1

No. of additional copies

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OCT 24 2007



US007275606B1

(12) **United States Patent**
Sims et al.

(10) **Patent No.:** US 7,275,606 B1
(45) **Date of Patent:** Oct. 2, 2007

(54) **SOLIDS STRAINER SYSTEM FOR A
HYDRAULIC CHOKE** *Taylor*

(75) Inventors: Donald Glynn Sims, Houston, TX (US); Michael James Sims, Tomball, TX (US); Robert Frank Schmidt, Cypress, TX (US); David Anthony Schmidt, Houston, TX (US); John Walton McCaskill, Jersey Village, TX (US)

(73) Assignee: Expro Americas, L.P., Houston, TX (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 11/799,846

(22) Filed: May 4, 2007

Related U.S. Application Data

(63) Continuation of application No. 10/880,640, filed on Jun. 30, 2004, now abandoned.

(60) Provisional application No. 60/485,187, filed on Jul. 7, 2003.

(51) Int. Cl.
E21B 21/10 (2006.01)
F16K 11/085 (2006.01)
B01D 35/02 (2006.01)

(52) U.S. Cl. 175/209; 175/218; 175/312;
166/229; 166/75.12; 137/547; 137/625.32;
137/625.47; 210/422; 210/446; 210/459

(58) **Field of Classification Search** 166/75.12,
166/91.1, 229, 205, 265, 267; 175/206, 207,
175/209, 218, 312; 210/309, 422, 446, 459;
137/546, 547, 625.47, 625.32, 550

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,646,514 A * 10/1927 Winton 210/329
3,348,694 A * 10/1967 Smith 210/390

* cited by examiner

Primary Examiner—Kenneth Thompson

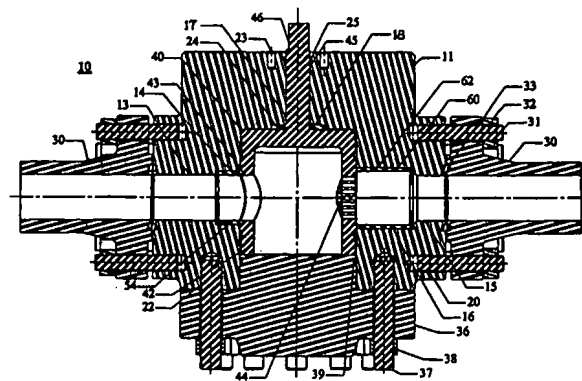
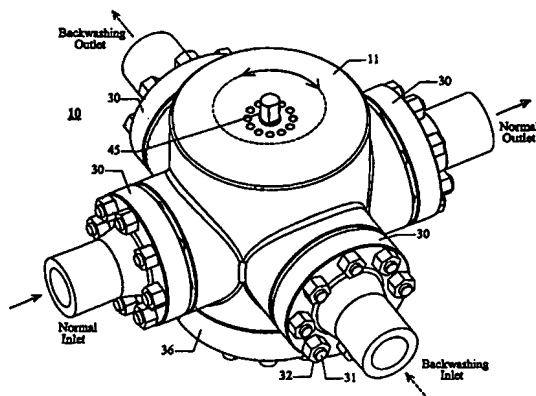
Assistant Examiner—Shane Bomar

(74) Attorney, Agent, or Firm—Elizabeth R. Hall

(57) **ABSTRACT**

The invention contemplates a strainer based upon a four-way, two-position rotary cylindrical plug valve having a hollow plug. The normal entry port for the sealing plug of the plug valve is a circular radial hole passing from the exterior of the plug into the interior cavity of the plug. The normal exit port for the sealing plug is a regular array of small holes across from and coaxial with the normal entry hole. The ports for the valve body are in two pairs positioned at 90° from each other, with the axes of the ports lying in the same transverse plane as the ports of the valve plug.

20 Claims, 18 Drawing Sheets



OCT 24 2007